510(k) SUMMARY

Organ Recovery Systems, Inc. KPS-1, Kidney Perfusion Solution

1. SUBMITTER INFORMATION

A. Organ Recovery Systems, Inc., 701 E. Bay St., Suite 433 MSC 1119 Port City Center Charleston, SC 29403

Federal Identification Number: 36-4256620

B. Official Correspondent:

Stanley J. Harris,
Director, Regulatory and Clinical Affairs

Phone: (843) 853-6756 ex. 29

Fax: (843) 722-6657

2. DEVICE IDENTIFICATION

A. Classification Name: Isolated kidney perfusion and transport system and

accessories (21 CFR 876.5880)

B. Classification: Class II, Gastroenterology/Urology Panel

C. Common/Usual Name: Cold Storage Solution

D. Proprietary Name: KPS-1, Kidney Perfusion Solution

3. PREDICATE DEVICE

KPS-1[™], Kidney Perfusion Solution (K013575) (University of Wisconsin Machine Perfusion Solution Formulation)

Indications for Use: KPS-1, Kidney Perfusion Solution is intended to be used for in-vitro flushing and temporary continuous hypothermic machine perfusion of kidneys at the time of their removal from the donor, in preparation for storage, transportation and eventual transplantation into a recipient.

Device Description: KPS-1TM, The Kidney Perfusion Solution (UW Machine Perfusion Solution) is a clear, sterile, non-pyrogenic, non-toxic solution for the invitro flushing and temporary continuous perfusion preservation of explanted kidneys. This solution has an approximate calculated osmolarity of 300mOsM, a sodium concentration of 100mEq/L, a potassium concentration of 25mEq/L, and a pH of approximately 7.4 at room temperature. Based upon the sodium/potassium ratio, the composition is thus consistent with that of an extracellular solution.

4. DESCRIPTION OF DEVICE

KPS-1[™], Kidney Perfusion Solution (University of Wisconsin Machine Perfusion Solution Formulation)

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KPS-1[™] should be cooled to about 5 °C (4 °C to 8 °C) prior to use and should be used in a perfusion machine that is capable of maintaining temperature within the above specified range.

It is recommended that the KPS-1[™] be stored between 2 °C and 8 °C. The solution should not be frozen or exposed to excessive heat.

KPS-1[™], The Kidney Perfusion Solution is suitable for a mean perfusion time of 29 hours +/- 8 hours.

KPS-1TM, The Kidney Perfusion Solution shelf-life is 6 months from data of aseptic fill. The stability of the perfusion solution was verified by accelerated aging for 6 months equivalency.

SUBSTANTIAL EQUIVALENCE

- A. Indications for Use: The indications for use remain unchanged for the modifications requested within this submission.
- B. Technological Characteristics: Unchanged from Original Submission.

5. CONCLUSION

KPS-1[™], The Kidney Perfusion Solution has the same intended use as the original submission (K013575) and the data presented in this submission demonstrates that the device modifications to KPS-1[™], The Kidney Perfusion Solution is substantially equivalent to original submission (K013575).



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

OCT 2 1 2002

Mr. Stanley J. Harris Director, Regulatory and Clinical Affairs Organ Recovery Systems, Inc. 701 East Bay Street, Suite 433 Port City Center, MSC 1119

CHARLESTON SC 29403

Re: K022391

Trade/Device Name: KPS-1™ The Kidney Perfusion

Solution.

Regulation Number: 21 CFR §876.5880

Regulation Name: Isolated kidney perfusion and

transport system and accessories

Regulatory Class: II Product Code: 78 KDN Dated: September 23, 2002 Received: September 24, 2002

Dear Mr. Harris:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html.

Sincerely yours,

Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Office of Device Evaluation

Manay Clorogdon

Center for Devices and Radiological Health

Enclosure

KPS-1[™], The Kidney Perfusion Solution Special 510(k): Device Modifications July 16, 2002 Page 8 of 86

5. INDICATIONS FOR USE STATEMENT

Device Name: KPS-1TM The Kidney Perfusion Solution

Indications for Use:

KPS-1[™], The Kidney Perfusion Solution is intended to be used for flushing and continuous hypothermic machine perfusion of kidneys at the time of their removal from the donor, in preparation for storage, transportation and eventual transplantation into a recipient.

(Division Sign-Off)

Division of Reproductive, Abdominal,

and Radiological Devices 510(k) Number ____

Prescription Use ______(Per 21 CFR 801.109)